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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/481,903	01/12/2000	BENSON CHAN	EN999025	6309

7590 06/16/2003

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EXAMINER

KANG, JULIANA K

ART UNIT	PAPER NUMBER
	2874

DATE MAILED: 06/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/481,903	CHAN ET AL.
Examiner	Art Unit	
Juliana K. Kang	2874	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 20 February 2003 .

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1,3-22,27 and 29-32 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) 1,3-22,31 and 32 is/are allowed.

6)  Claim(s) 27, 29 and 30 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)  The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a)  The translation of the foreign language provisional application has been received.

15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) . . . . .

4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_\_

Application/Control Number: 09/481,903

Art Unit: 2874

1. This is response to the amendment filed on February 20, 2003, which has been carefully studied by the Examiner. The amendment made to claim 1 to include the allowable subject matter made the claim 1 allowable. Thus, claim 3 which is dependent on claim 1 is also allowable. However, claim 27 and its dependent claims are still rejected for the reasons set forth here below. Claims 4-22, 31 and 32 are allowable and the reasons for allowability are indicated in the previous Office action. This action is made Final.

#### ***Claim Objections***

2. Claim 29 is objected to because of the following informalities: Applicant has canceled claim 28. However, claim 29 is still dependent on claim 28. During this examination, claim 29 will be interpreted as if it is dependent on claim 27. Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 27, 29 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Maehara et al (U.S. Patent 6,164,838).

Regarding claims 27 and 29, Maehara et al disclose a method for coupling an optical fiber cable to at least one translating die comprising; applying an electrical signal from an amplifier die (35) to a flexible circuit (39) disposed on a laminate (30) to which a host card (see column lines 66-67 and column 5 line 1) can be electrically connected (220); converting said electrical signal to an optical signal (see column 9 lines 61-67),

applying said optical signal to an optical coupler for transmitting said optical signal to an optical connector attached to said at least one fiber optic cable (see column 10 lines 2-9) and removing heat from said translating die via a plurality of heat sink pathways (see column 16 lines 13-29). Maehara et al's convex portion (201a), upper cover (200) and the lower cover (210) are used to dissipate heat created from the amplifier (35) and LD driver.

Regarding claim 30, Maehara et al disclose a retainer (10, 20, see Fig. 31) operatively connected to the optical coupler and removably connected to said optical connector (see column 2 lines 65-67).

### ***Conclusion***

5. Applicant's arguments filed February 20, 2003 have been fully considered but they are not persuasive. Applicant argues that Maehara et al fails to teach removing heat from the translating die through multiple pathways. The Examiner does not agree with this. As indicated above, Maehara et al's convex portion (201a), upper cover (200) and the lower cover (210) dissipate heat. Thus, Maehara et al clearly disclose multiple pathways of removing heat.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juliana K. Kang whose telephone number is (703) 305-6259. The examiner can normally be reached on Mondays and Thursday 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rod Bovernick can be reached on (703) 308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-3072.

*Juliana Kang*  
Juliana Kang  
June 2, 2003

*Rodney Bovernick*  
Rodney Bovernick  
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